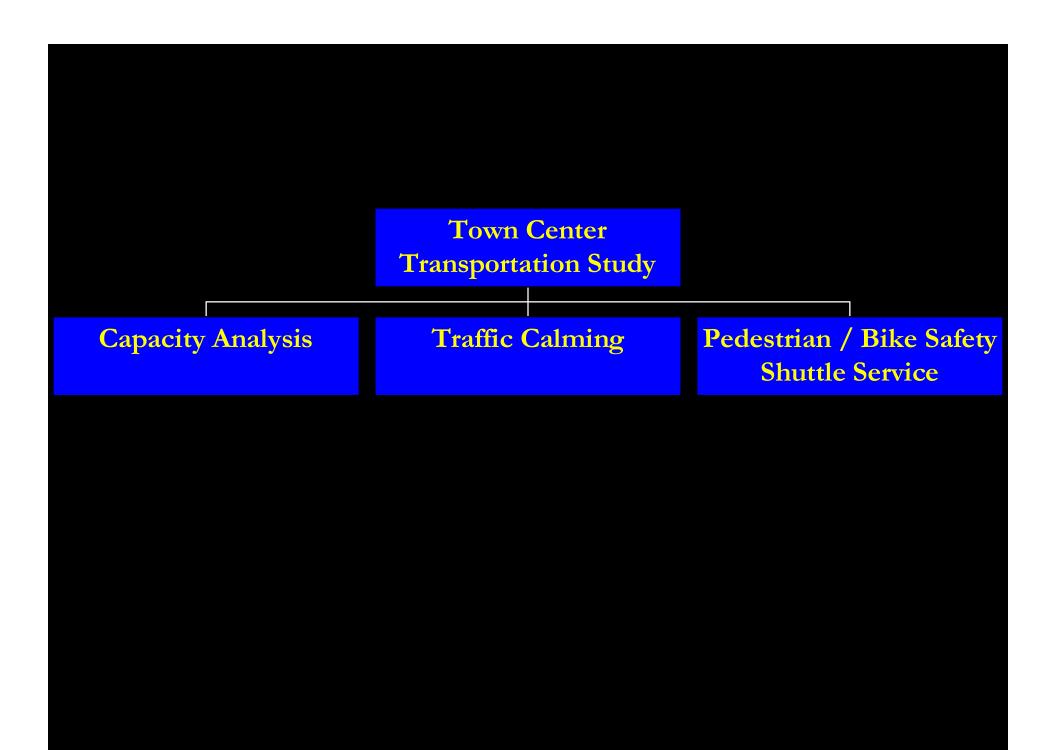
#### Town Center Traffic Capacity Analysis

- 1. Overview of Study
- 2. Land Use Assumptions / Scenarios (Sept. 20)
- 3. Study Methodology
- 4. Existing Conditions
- 5. Baseline Future Conditions
- 6. Town Center Development Scenarios
- 7. Next Steps



# Implement Goals / Guidance in the Master Plan



## Land Use Scenarios Town Center Traffic Capacity Analysis

- Existing Conditions
- Baseline (Pipeline)
- Three Town Center Scenarios



### Study Methodology

- Traffic Generation
- Performance Measures
- Traffic Analysis Tools

## Trip Generation Totals for Each Scenario

Scenario	Total AM Peak	Total PM Peak
Scenario 1	5559	7116
Scenario 2	5150	6679
Scenario 3	6448	8030

### Performance Measures

- Intersections
  - Peak Hour Congestion
  - Delay
- Roadways
  - Travel Time
  - Delay

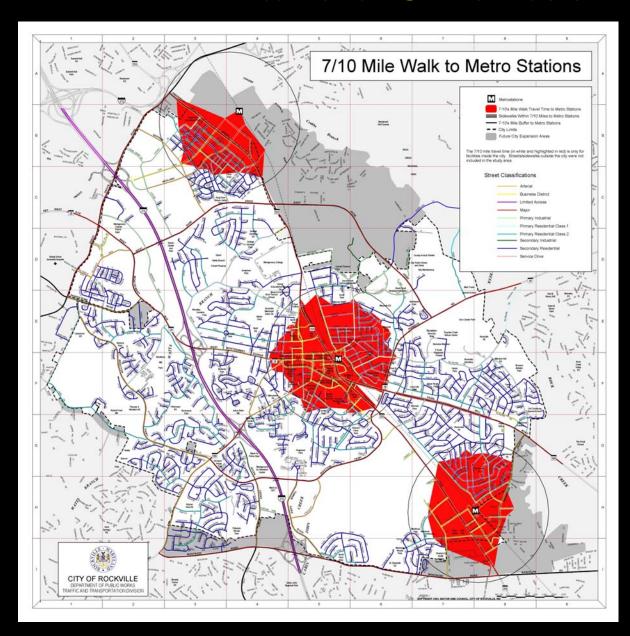
### Traffic Analysis Tools

- Planning Analysis
- Computer Simulation
  - Output Measures or Performance Measures
  - Graphical Output

# Level of Service at Signalized Intersections

Signalized Intersections		
Level of Service (LOS)	Control Delay (seconds)	Description
А	<u>&lt;</u> 10.0	Free Flow/Insignificant Delays
В	10.1 - 20.0	Stable Operation/Minimal Delays
С	20.1 - 35.0	Stable Operation/Acceptable Delays
D	35.1 - 55.0	Approaching Unstable/Tolerable Delays
E	55.1 - 80.0	Unstable Operation/Significant Delays
F	≥ 80.0	Forced Flow/Excessive Delays

### **Transit-Oriented Areas**



7/10ths mile from Fixed Transit Right of Way

## **Existing Conditions**





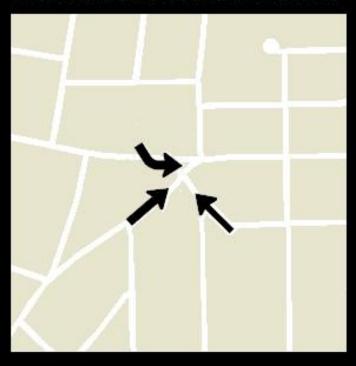


### CRITICAL MOVEMENTS ON EXISTING FAILING INTERSECTIONS

VEIRS MILL RD & MD 28



W JEFFERSON ST & GREAT FALLS RD





# Travel Time on MD 28 from Nelson St. to First St.

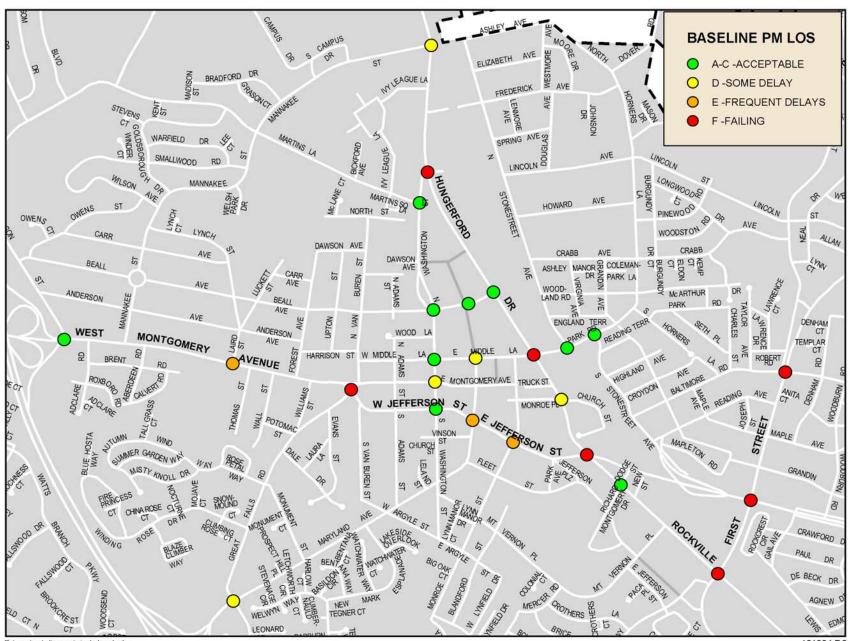
	Travel Time PM Peak	
	(min)	
	WB	EB
Existing	9.0	8.0

### Baseline





101904 RC future street alignments in darker shade



\*future street alignments in darker shade

## Travel Time on MD 28 from Nelson St. to First St.

	Travel Time PM Peak	
	(min)	
	WB	EB
Existing	9.0	8.0
Baseline	12.4	24.5

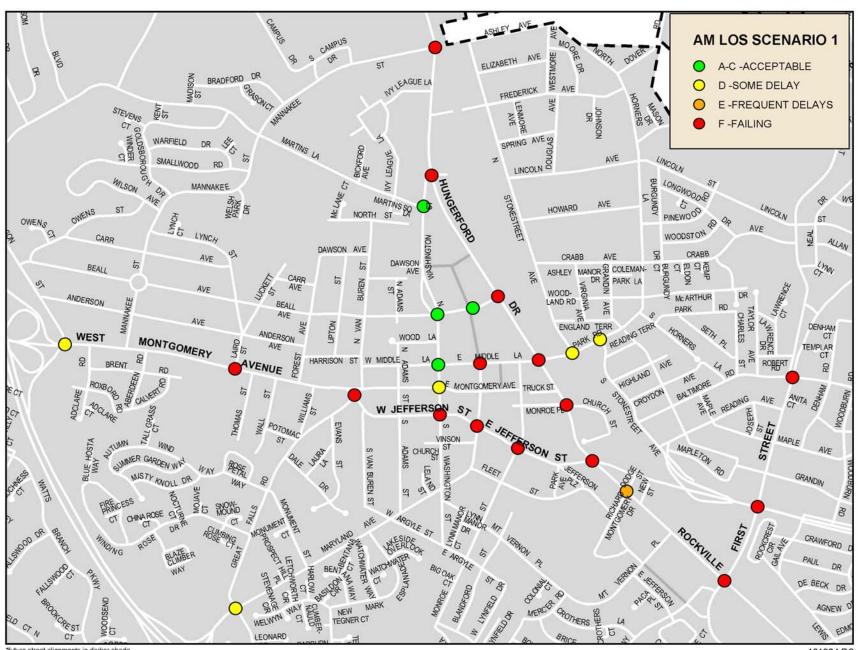


#### Scenario 1

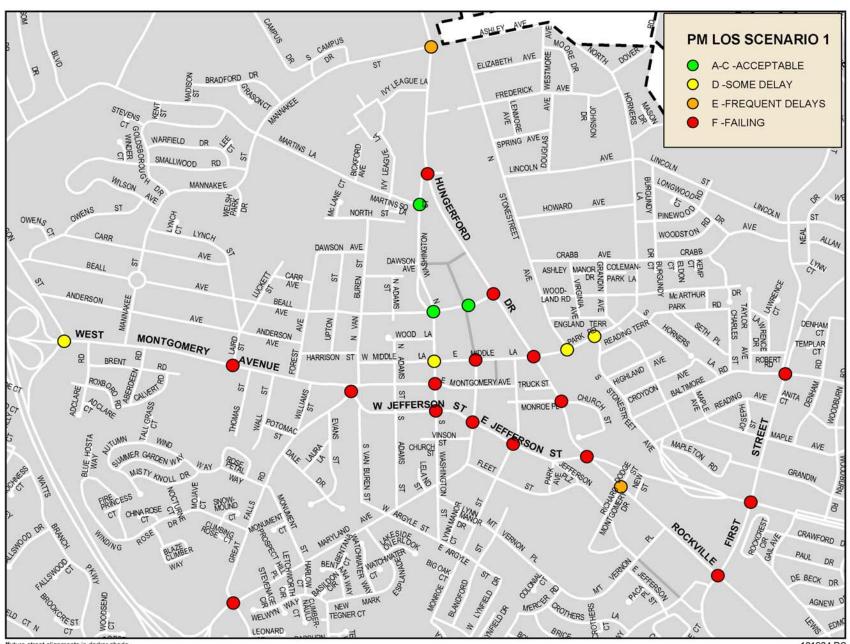
#### **Includes:**

- •All currently-approved pipeline projects
- •Pending projects: Archstone @ First Street apartments
- •Potential redevelopment: development/ redevelopment "likely scenarios" for remaining parcels. *Does not include maximum zoning potential*.





\*future street alignments in darker shade



Tuture street alignments in darker shade

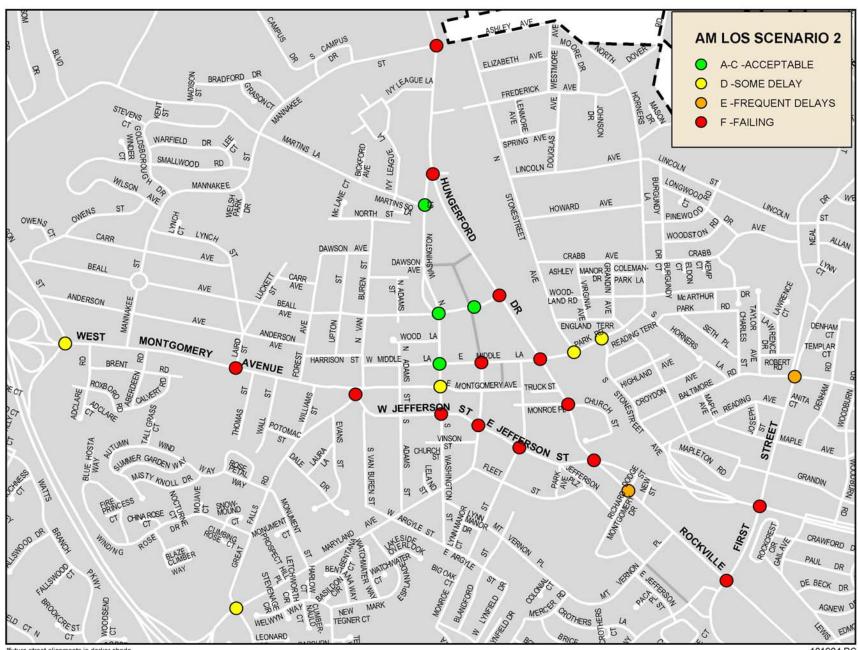
## Travel Time on MD 28 from Nelson St. to First St.

	Travel Time PM Peak (min)	
	WB	EB
Existing	9.0	8.0
Baseline	12.4	24.5
Scenario 1	18.6	25.3

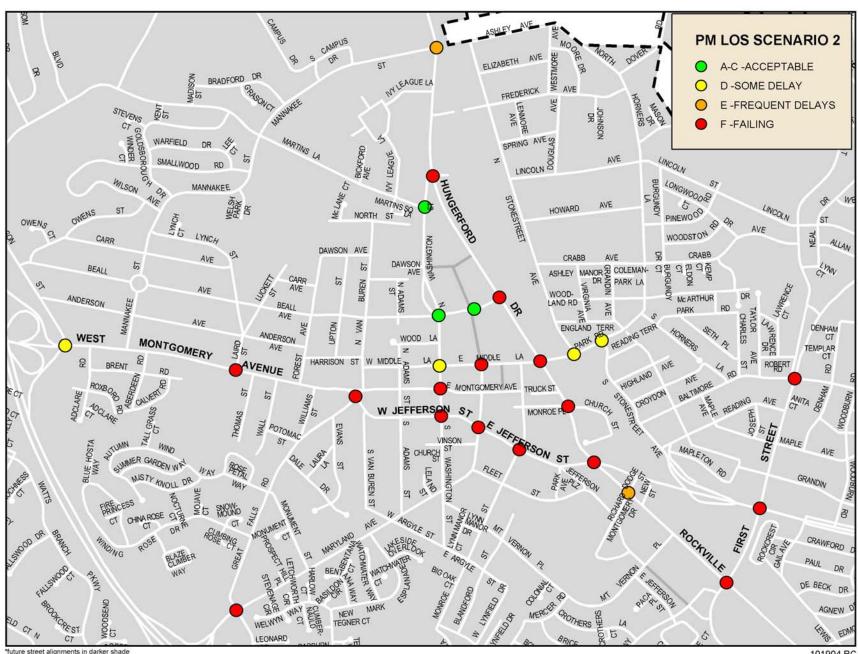
#### Scenario 2

#### **Includes:**

- •All currently-approved pipeline projects, with potential changes to multiple-phase developments such as Rockville Center and Rockville Metro Plaza
- •Pending projects: Archstone @ First Street apartments
- •Potential redevelopment: development/ redevelopment "likely scenarios" of development for remaining parcels. *Does not include maximum* zoning potential.



101904 RC \*future street alignments in darker shade

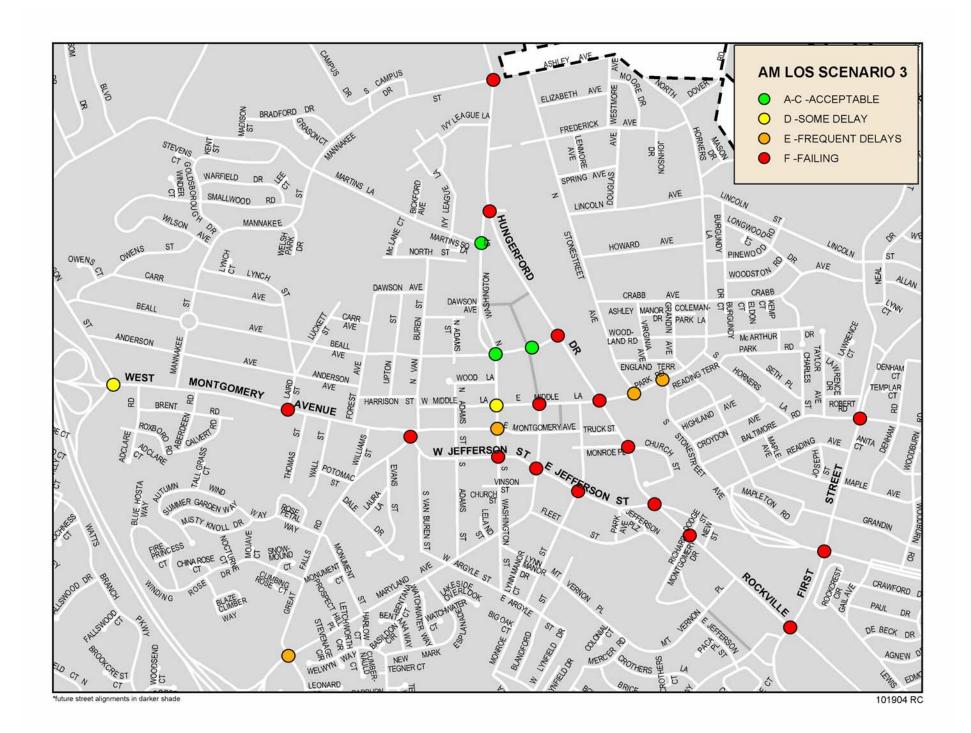


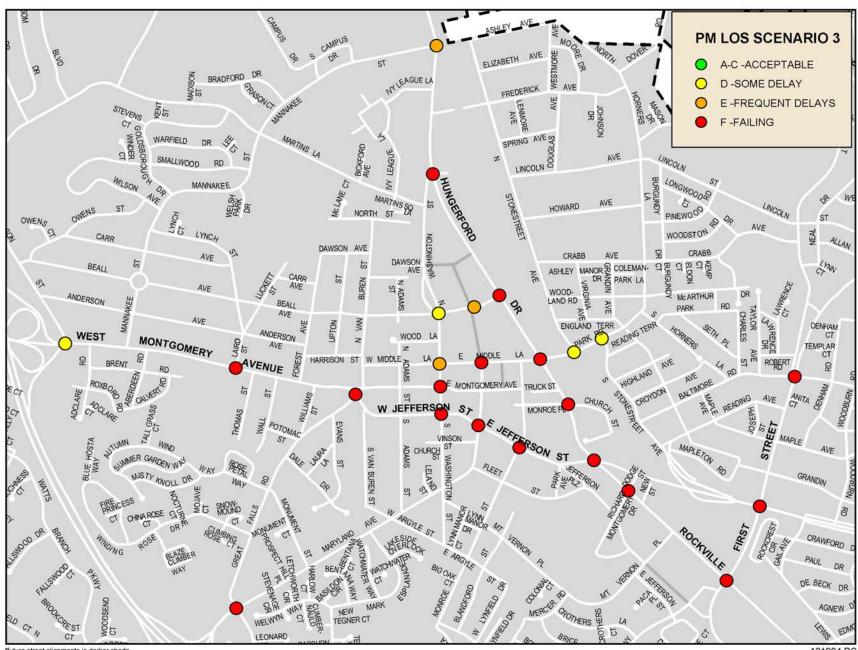
future street alignments in darker shade 101904 RC

#### Scenario 3

#### **Includes:**

- •All currently-approved pipeline projects, with potential changes to multiple-phase developments such as Rockville Center and Rockville Metro Plaza
- •Pending projects: Archstone @ First Street apartments
- •Potential redevelopment: development/redevelopment for remaining parcels at maximum zoning potential.





101904 RC future street alignments in darker shade

## Next Steps Town Center Traffic Capacity Analysis

- Consultant to complete final report
- Staff to assess feasibility of improvements
- Mayor & Council to provide guidance at next worksession

